REPORT / RECOMMENDATION

To: MAYOR AND COUNCIL

Agenda Item #: IX.C

From: Ross Bintner P.E., Environmental Engineer

Action ☐
Discussion ☐
Information ☒

Date: November 5, 2012

Subject: Energy and Environment Commission Advisory Communication

Action Requested:
No specific action requested.

Information / Background:
The attached advisory communication was drafted by the EEC to provide information and make a recommendation to the City Council.

Edina Energy and Environment Commission
Advisory Communication

Date: 10/22/12

Subject: Re-commissioned Golf Dome

Attachments: (1000 BTU/SF Annual energy use graphs for all city facilities, and golf dome)

Situation:

The Braemar golf dome is being re-commissioned, a critical decision point in the future energy use of a building.

Background:

The McKinstry report revealed the Braemar golf dome was the biggest consumer of energy per square foot of all municipal buildings in Edina. Data summaries of municipal building energy use supports the reality that on average the previous golf dome used 2-3 times the energy of the average building per square foot.

Assessment:

See attachments

Recommendation:

Given that the new golf dome will likely remain the largest energy using facility in the city, the Energy and Environment Commission advises City Council to direct the City Manager and Staff to include energy improvements, evaluate systems, and make equipment and construction decisions on ways to reduce overall energy use; Edina should not miss the opportunity to maximize energy efficiency or the opportunity to inform citizens about the importance of reducing energy use in buildings, especially high-energy use ones.

The dome should reduce overall energy usage and determine how to procure energy derived from solar collection and conversion systems or wind generated electricity for the energy usage that is above the per square foot average of the other municipal buildings. This would go a long way toward educating the public about the significant energy use of domed sport facilities; something that makes sense as the need to reduce our municipal energy usage and carbon footprint remains and as the dialog about another domed sport facility continues.

Routing

From	To	Action Requested
EEC	City Council	Include as correspondence to Council.

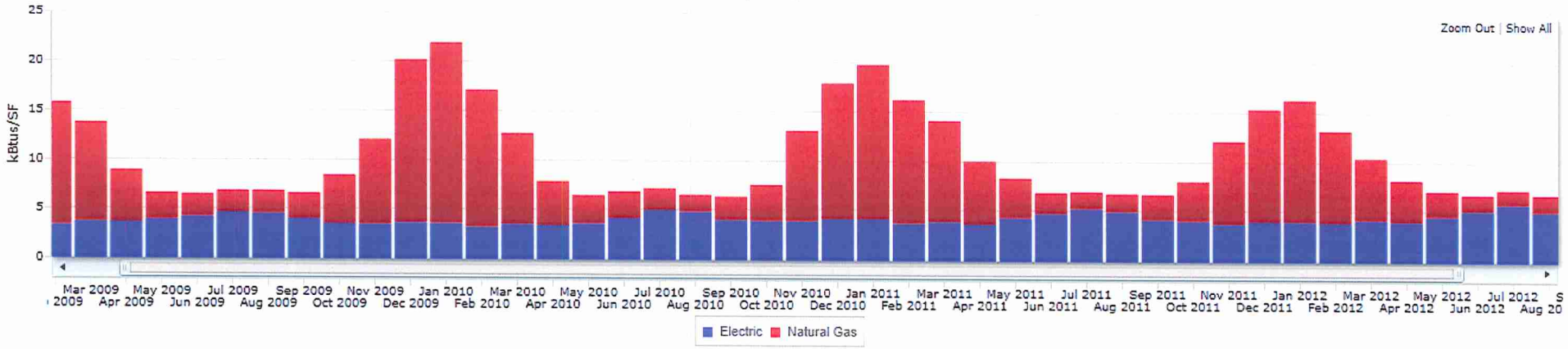
City, Edina - Consumption Report

10/22/2012

Showing 20 of 20 Sites

Monthly Continuous

All Fuel, Per Square Foot

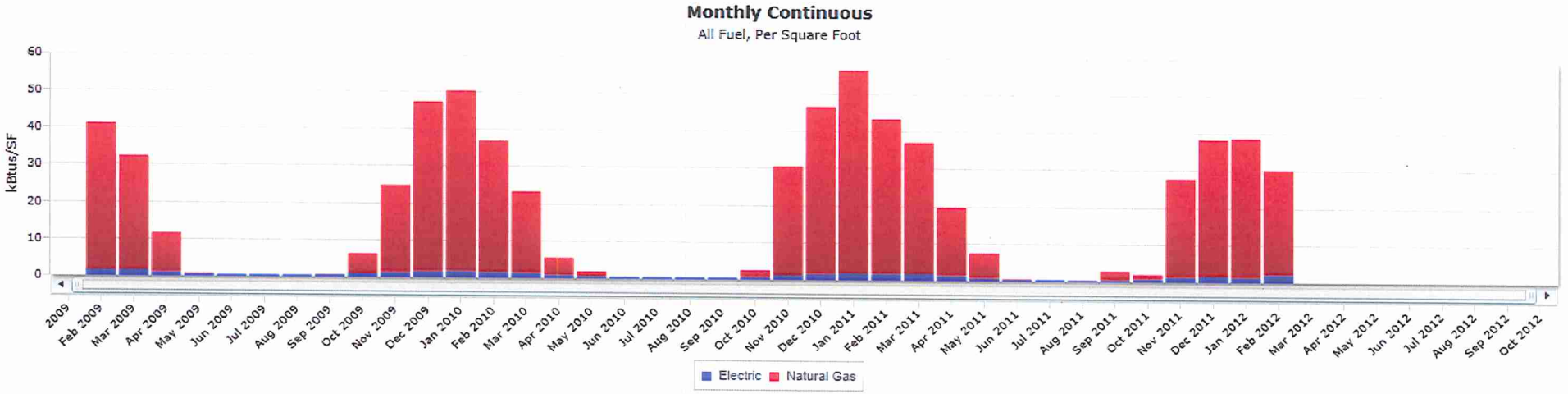


Year	Days	SF	Total kBtu /SF	Target kBtu /SF	Change from Target kBtu /SF	% Change	Total Energy Cost $ /SF	Average Cost Rate $ /kBtu
2009	365	594,219	119.55	-	-	-	$1.63	$0.01
2010	365	594,219	132.11	-	-	-	$1.85	$0.01
2011	365	594,219	131.95	-	-	-	$1.94	$0.01
2012	244	550,270*	79.51	-	-	-	$1.28	$0.02

*Listed square footage represents an average for the given year

Braemar Golf Dome - Consumption Report

10/22/2012



Year	Days	SF	Total kBtu /SF	Target kBtu /SF	Change from Target kBtu /SF	% Change	Total Energy Cost $ /SF	Average Cost Rate $ /kBtu
2009	334	48,832	168.53	-	-	-	$1.44	$0.01
2010	365	48,832	199.60	-	-	-	$1.67	$0.01
2011	365	48,832	237.16	-	-	-	$1.77	$0.01
2012	171	4,883*	69.00	-	-	-	$0.47	$0.01

*Listed square footage represents an average for the given year